

Comprehensive List of Current EDGE (CEP) Courses

ART 104 DIGITAL PHOTOGRAPHY

This course will be an introduction to the art of digital still photography. In this course, students will learn to use a digital camera, how to optimize images using Photoshop and how to print and present their work. Students must have access to a digital camera. 3 cr. 3 lec.

ART 117 BASIC DRAWING

ART 117 is a studio course concentrating on drawing. Instruction is given in the fundamental principles of drawing based on observation and imagination. Topics will include composition, value, line, space, textures, gesture, and proportion. 3 cr. 4 studio.

ART 118 BASIC PAINTING

ART 118 is a studio course concentrating on painting. Instruction is given in the fundamental principles of watercolor painting based on observation and imagination. Topics will include color mixing, opaque and transparent paint applications, composition, and mood. Prerequisite: ART 117. 3 cr. 4 studio hrs.

ART 131 CERAMICS 1

The goal of this course is to teach students the basic skills in the use of clay. Coil building, slab construction and wheel-thrown work will be emphasized. A strong foundation in the use of glazes, clays and firing procedures will also be provided. There will also be a unit on various firing techniques. The history of ceramic arts will be studied, focusing on a number of influential people in the field both past and present. 3 cr. 4 studio.

ART 232 CERAMICS 2

ART 232 is a studio course designed to allow students to continue building skills working with clay. In addition, students will learn about the engineering, firing, and glazing of clay. While all areas of clay work will be developed, each student will pick an area of emphasis. Students will mix their own glazes, fire the kilns, and continue to study the history of the ceramic arts. Prerequisite: ART 131. 3 cr. 4 studio.

BIO 106 HUMAN BIOLOGY

This one-semester laboratory course relates concepts of human anatomy and physiology to human behavior. Topics include cell and human organization; metabolic functions of the nervous system, reproductive system, musculoskeletal system, and cardiovascular system as they contribute to homeostasis; human inheritance and reproduction; and human evolution and ecology. Each topic covered will focus on adaptive mechanisms by which human physiology affects human behavior. BIO 106 is specifically designed to fulfill transfer requirements for Human Services majors. It is recommended that students take this course after completing any required noncredit coursework in Reading, Math, or English. High school biology strongly recommended. 4 cr. 3 lec. 3 lab.

BUS 102 FOUNDATIONS OF SPORTS MANAGEMENT

This course discusses the meaning of sport management in terms of its scope, principles, issues and future trends. In addition, this course examines the job responsibilities and competencies required of sport managers in a variety of sports or sports related organizations to have the students become acquainted with the roles of sports administrators and managers. The course will also provide the student with an overview of the different facets and career opportunities that are available in the field of sport management. 3 cr. 3 lec.

BUS 104 PERSONAL FINANCE

This course provides an overview of personal finance as it relates to personal financial planning and budgeting, credit control, expense control, mortgage and consumer financing, tax planning and investments. It also covers the economic aspects of financial planning as it relates to household and business financial management. 3 cr. 3 lec.

BUS 116 APPLIED BUSINESS MATH

This course is designed to provide students the mathematical and conceptual skills needed to solve everyday business and personal finance problems encountered in the working world. Areas covered include percentage, banking, trade and cash discounts, markups and markdowns, simple and compound interest, consumer credit, and payroll. Prerequisite: Equivalent of MTH 090 or higher. 3 cr. 3 lec.

BUS 150 INTRODUCTION TO ENTREPRENEURSHIP

This course provides a basic introduction to the concept of entrepreneurship for students who may have an interest in someday starting or operating their own business. Topics include exploring the idea of becoming an entrepreneur, developing a successful business idea, moving from an idea to an entrepreneurial venture, and managing and growing the entrepreneurial firm. 3 cr. 3 lec.

BUS 160 SPREADSHEET APPLICATIONS

This course provides an in-depth introduction to a spreadsheet program. Topics include formulas, functions, charting, formatting worksheets, absolute cell references, working with large worksheets, what-if analysis, financial functions, data tables, amortization schedules, cell protection, worksheet database manipulation, lookup functions, database functions, templates, working with multiple worksheets and workbooks, find and replace, and additional spreadsheet capabilities. No prior knowledge of computers or spreadsheets is assumed. 3 cr. 4 lec./lab.

CIS 110 INTRODUCTION TO COMPUTING WITH MICROCOMPUTERS

This is a non-programming course designed to familiarize the student with the use of modern microcomputers as tools for problem solving. Students will complete projects using application software for word processing, spreadsheets, graphics, telecommunications/Internet, and presentation software. Basic computer experience is required (i.e. operating system usage, fundamental word processor usage, etc.) Not recommended for students who test below MTH 125 or MTH 133, or test below CLS 101. 3 cr. 3 lec. 1 lab.

CUL 120 NUTRITION

This course will provide students with the nutritional knowledge required to develop and modify recipes and menus to meet the needs of an increasingly health conscious public. Students will develop a practical systems approach to deliver nutritional alternatives to food service customers. 3 cr. 3 lec.

CUL 140 PRINCIPLES OF BAKING

This course is designed to provide students with an introduction to the basic ingredients used in baking and general factors in production and preservation of baking products. Topics covered include: an introduction to bread and roll production, sweet yeast dough products, biscuits, muffins and scones, doughnuts and cruellers, pies, pastries, icings, cream and whipped toppings, cakes and cake specialties, and cookies. The methods of sanitation and safety will be addressed throughout the course. 2 cr. .5 lec. 4.5 lab.

CUL 102 INTRO. TO CULINARY THEORY AND PRACTICE

This course is designed to provide a foundation for development of culinary theory and practical skills needed by both culinary arts students and hotel/restaurant management students. Topics covered include sanitation and safety techniques, nutrition planning and awareness, basic skill development, product identification, and proper cooking methods for various types of foods. Students will be introduced to and will prepare mother and minor sauces, stocks, and soups. 2 cr.5 lec. 4.5 lab.

ECO 101 MACROECONOMICS

Macroeconomics is a study of economic analysis as applied to problems of economic growth, business fluctuations, unemployment and inflation. Monetary and fiscal policies are evaluated as techniques used to achieve the economic goals of society. Prerequisite: Equivalent of MTH 125, 155, or higher. 3 cr. 3 lec.

EGY 130 ELECTRICAL THEORY AND PRACTICE FOR ENERGY WORKERS

This course provides an introduction to basic electrical theory and practice. Topics will include safety while working with electricity and proper utilization of tools and equipment used in working with electricity. Pre/Corequisites: MTH 133, MTH 166, or MTH 185 or higher, and OSHA Certificate. 4 cr. 4 lec. 2 lab.

EGY 135 PLUMBING/HVAC FOR ENERGY WORKERS

This course investigates the basic theories and practices in the Plumbing, Heating, Ventilation and Air Conditioning (HVAC) field. It combines hands-on training with classroom instruction focusing on safety while covering the basic topics of tools, blueprint reading, pipefitting, connections, gas and oil furnaces and burners, electrical components of all systems, air conditioners and refrigerators. Prerequisite: EGY 130. 4 cr. 4 lec. 2 lab.

ENG 099 BASIC COMPOSITION

English 099 is required of students whose writing skills are identified as pre-college by the Accuplacer Sentence Skills Test and a writing sample. Students complete a variety of reading and writing assignments designed to develop their skills in paragraph and essay writing, as well as to strengthen their command of Standard American English grammar and sentence structure. 0 cr. 3 lec.

ENG 100 COLLEGE COMPOSITION

English 100 is an introduction to academic writing. The course is designed to strengthen student skills in grammar, sentence structure, organization and development of college-level writing, and prepare students for English 101: Research and Composition. In English 100, students complete diverse, predominantly non-fiction reading and writing assignments designed to improve their ability to organize and develop thesis-driven essays directed to an academic audience. Prerequisite: Placed (by CPT or waiver) in ENG 100 or passed ENG 099. 3 cr. 3 lec.

ENG 101 RESEARCH AND COMPOSITION

English 101 students will employ strategies and techniques for successful academic essay and research writing. The course is designed for students who demonstrate skill in the process of developing essays. Students will use a variety of methods and sources documented in MLA style. Students complete diverse, predominantly non-fiction reading and writing assignments designed to enhance their ability to write 4-5 complex essays for varied purposes, directed to academic audiences. At least one research essay that defends an arguable assertion is required for students to complete the course. Prerequisite: Placed into ENG 101 by CPT or by Department Chair or passed English 100. 3 cr. 3 lec.

ENG 102 LITERATURE AND COMPOSITION

English 102 students will employ strategies and techniques for reading, analyzing, interpreting, and evaluating fiction, poetry, and drama. Readings will include literature of merit by male and female authors from diverse time periods, thematic areas, and cultural perspectives. Students will complete a variety of writing assignments designed to develop skills in literary analysis and will write formal, literature-based essays on the three genres. This course is designed for students who have already demonstrated college-level skills in essay writing and provides a foundation for upper-level literature courses. Prerequisite: ENG 101. 3 cr. 3 lec.

FRE 112 ELEMENTARY CONVERSATIONAL FRENCH 2

This course is designed to meet the various conversational needs of the particular group of students enrolled in the class. Thus, the course content may be adapted to meet conversational needs for law enforcement, human services, travel, medicine or business on an elementary level. Emphasis is placed on speaking and comprehension skills, while developing the ability to converse in French in a variety of realistic situations that the student may encounter. This course is neither a prerequisite for nor a natural stepping stone to FRE 121, 122. Native speakers should not take this course. This course is open to students who have completed FRE 111 or no more than three years of high school French. This course is not open to students who have completed more than three years of high school French, or FRE 122 or higher. Prerequisite: FRE 111, no more than three years of high school French, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

FRE 122 ELEMENTARY FRENCH 2

This humanities course is the second half of a 2-semester sequence that constitutes an introduction to French language and French cultures. It begins with a review of present and preterit tenses. The student will continue to develop the four basic skills of listening comprehension, speaking, and reading and writing with an emphasis on spoken communication. FRE 121 is a prerequisite (with a grade of "C" or better being strongly recommended) for successful completion of this course. This course is not open to native speakers or to students with four years or more of high school French. This course satisfies a SUNY General Education learning outcome. Some work that students do in this course (tests, papers, projects) may be retained by Jefferson Community College in order to demonstrate to SUNY overall levels of student achievement for General Education. Prerequisite: FRE 121, or its equivalent, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

FRE 221 INTERMEDIATE FRENCH 1

This humanities course is the first half of a 2-semester sequence that continues the development from FRE 122 of the four basic skills of listening comprehension, speaking, reading and writing with an emphasis on communication in French. Student participation in this course will be entirely in French. A study of French cultures and customs continues to be developed in this course. New students should have completed at least four years of high school French. This course is open to native speakers. Prerequisite: FRE 122, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

FRE 222 INTERMEDIATE FRENCH 2

This Humanities course is the second half of a 2-semester sequence that continues the development of the four basic language skills of listening comprehension, speaking, reading and writing with an emphasis on communication. Student participation in this course will be entirely in French. The course also introduces literary analysis of French literature. New students should have completed at least four years of high school French. This course is open to native speakers. Prerequisite: FRE 221, or its equivalent, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

GIS 150 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

This is a non-programming course designed to familiarize the student with geographic information systems (GIS). Students will learn to use a GIS for storing, displaying, and analyzing spatially located information. Course topics will include GIS design, data formats, and data representation, and the use of global positioning systems (GPS) for spatially locating data. This course emphasizes the application of GIS as an analytical tool in natural resource management, population characteristics, and marketing. Basic computer experience is required (e.g. operating system usage, word processor usage). 3 cr. 2 lec. 2 lab.

GER 112 ELEMENTARY CONVERSATIONAL GERMAN 2

This course is designed to meet the various conversational needs of the particular group of students enrolled in this class. Thus, the course content may be adapted to meet conversational needs for law enforcement, human services, travel, medicine or business on an elementary level. Emphasis is placed on speaking and comprehension skills, while developing the ability to converse in German in a variety of realistic situations that the student may encounter. This course is neither a pre-requisite for nor a natural stepping stone to GER 121, GER 122. Native speakers should not take this course. This course is open to students who have completed GER 111, or no more than two years of high school German. This course is not open to students who have completed more than 2 years of high school German, or GER 122 or higher. 3 cr. 3 lec. Prerequisite: GER 111, or no more than two years of high school German.

GER 122 ELEMENTARY GERMAN 2

This humanities course is the second half of a 2-semester sequence that constitutes an introduction to German language and cultures. It begins with a review of present and preterit tenses. The student will continue to develop the four basic skills of listening comprehension, speaking, and reading and writing with an emphasis on spoken communication. GER 121 is a pre-requisite (with a grade of "C" or better being strongly recommended) for successful completion of this course. This course is not open to native speakers or to students with four years or more of high school German. This course satisfies a SUNY General Education learning outcome. Some work that students do in this course (tests, papers, projects) may be retained by Jefferson Community College in order to demonstrate to SUNY overall levels of student achievement for General Education. Prerequisite: GER 121, or its equivalent, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 lec.

GER 221 INTERMEDIATE GERMAN 1

This humanities course is the first half of a 2-semester sequence that continues the development from GER 122 of the four basic skills of listening comprehension, speaking, reading and writing with an emphasis on communication in German. Student participation in this course will be entirely in German. A study of German cultures and customs continues to be developed in this course. New students should have completed at least four years of high school German. This course is open to native speakers. Prerequisite: GER 122, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

GER 222 INTERMEDIATE GERMAN 2

This Humanities course is the second half of a 2-semester sequence that continues the development of the four basic language skills of listening, comprehension, speaking, reading and writing with an emphasis on communication. Student participation in this course will be entirely in German. The course also introduces literary analysis of German literature. New students should have completed at least 4 years of high school German. This course is open to native speakers. Prerequisite: GER 221, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec

HEA 101 PERSONAL AND COMMUNITY HEALTH

This course is designed to provide basic information, options, and applications of health issues to aid individuals in making appropriate decisions in leading to optimal health. The students will be encouraged to think critically as consumers of health-related information and products in everyday life. 3 cr. 3 lec.

HIS 150 AMERICAN HISTORY TO 1877

This course provides a survey of the major social, economic, political, cultural, and intellectual dynamics that have shaped the American experience through Reconstruction. It is recommended that students take this course only after completing any required noncredit coursework in reading (CLS). Prerequisite: CPT placement into ENG 100 or higher. 3 cr. 3 lec.

HIS 151 AMERICAN HISTORY 1877 TO PRESENT

This course provides a survey of the major social, economic, political, cultural, and intellectual dynamics that have shaped the American experience since Reconstruction. It is recommended that students take this course only after completing any required noncredit coursework in reading (CLS). Prerequisite: CPT Placement into ENG 100 or higher. 3 cr. 3 lec.

MTH 098 FUNDAMENTALS OF MATHEMATICAL LITERACY

This course is required of students whose math skills are identified as a pre-college by the college placement test. The course uses varying contexts, focusing on situations and techniques meaningful to college students, to promote mathematical problem solving, critical thinking, and writing skills. Topics include numeracy, proportional reasoning, algebraic reasoning, and modeling mathematical relationships. 0 cr. 4 lec.

MTH 144 ELEMENTARY STATISTICS

This course provides a basic introduction to statistics and its applications to mathematics, science, social science, and business. Emphasis is placed on calculating, interpreting, reading and reporting through writing, descriptive statistics. Topics include: The design of a statistical study, observational studies, experiments, graphs, tables, statistical notation, measures of central tendency, variability, probability, the normal distribution, correlation and regression. Students will be expected to read, summarize and interpret current newspaper and journal articles and/or conduct a survey and report the results. Students will also be expected to demonstrate competency with current technology. Prerequisite: Math placement (by CPT) or successful completion of MTH 098 or higher. Pre/Co-Requisite: ENG 100 (College Composition) or English placement (by CPT) into ENG 101 (Research and Composition). Not open, without permission of the department chair, to students with a grade of C or better in MTH 155 or higher. 3 cr. 3 lec.

MTH 185 PRECALCULUS MATHEMATICS

This course is designed to prepare students for success in the study of calculus. Concepts and functions will be represented graphically, numerically, symbolically and verbally. Linear, quadratic, exponential, and logarithmic functions are reviewed. Critical thinking is developed as instruction focuses on the study of trigonometric, power, polynomial and rational functions and their operations. Students will be expected to demonstrate competence in the use of current technology as it applies to Precalculus topics. Prerequisites: Completion of MTH 165, College Algebra and Trigonometry with a grade of C or better or math placement by CPT. 4 cr. 4 lec

MTH 221 CALCULUS 1

MTH 221 is the first course in the calculus sequence for students in mathematics, science, computer science, and engineering. Basic analytic geometry, functions, limits and continuity, derivatives of algebraic and trigonometric functions, chain rule, implicit differentiation, antiderivatives, definite integrals, Fundamental Theorem, and applications of derivatives and integrals form the core concepts. Students are required to develop and demonstrate literacy with current technology as it applies to the study of Calculus 1. Prerequisite: Completion of MTH 185 Precalculus with a C or better, placement by CPT or permission of the Mathematics Department Chair. 4 cr. 4 lec.

MTH 222 CALCULUS 2

MTH 222 is the second course in the calculus sequence for students in mathematics, science, computer science, and engineering. The theory of integration, techniques of integration, numerical approximation of integrals, the application of integration to the solution of word problems, and an introduction to sequences and series, power series, and Taylor and Maclaurin Series. Students are required to develop and demonstrate literacy with current technology as it applies to the study of Calculus 2. Prerequisite: Completion of MTH 221 (Calculus I) with a grade of C or better. 4 cr. 4 lec.

POL 121 INTRODUCTION TO AMERICAN GOVERNMENT

This course is an introduction to the American political system, including the Constitutional framework; legislative, executive, and judicial functions; as well as the nature of American political parties, interest groups, public opinion, social movements, political economy, and the role each plays in contemporary American life. 3 cr. 3 lec.

SPA 112 ELEMENTARY CONVERSATIONAL SPANISH 2

This course is designed to meet the various conversational needs of the particular group of students enrolled in the class. Thus, the course content may be adapted to meet conversational needs for law enforcement, human services, travel, medicine or business on an elementary level. Emphasis is placed on speaking and comprehension skills, while developing the ability to converse in Spanish in a variety of realistic situations that the student may encounter. This course is neither a prerequisite for nor a natural stepping stone to SPA 121, 122. Native speakers should not take this course. This course is open to students who have completed SPA 111 or no more than three years of high school Spanish. This course is not open to students who have completed more than three years of high school Spanish, or SPA 122 or higher. Prerequisite: SPA 111, no more than three years of high school Spanish, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

SPA 122 ELEMENTARY SPANISH 2

This humanities course is the second half of a 2-semester sequence that constitutes an introduction to Spanish language and Hispanic cultures. It begins with a review of present and preterit tenses. The student will continue to develop the four basic skills of listening comprehension, speaking, and reading and writing with an emphasis on spoken communication. SPA 121 is a pre-requisite (with a grade of "C" or better being strongly recommended) for successful completion of this course. This course is not open to native speakers or to students with four years or more of high school Spanish. This course satisfies a SUNY General Education learning outcome. Some work that students do in this course (tests, papers, projects) may be retained by Jefferson Community College in order to demonstrate to SUNY overall levels of student achievement for General Education. Pre-Requisite: SPA 121, or its equivalent, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

SPA 221 INTERMEDIATE SPANISH 1

This humanities course is the first half of a 2-semester sequence that continues the development from SPA 122 of the four basic skills of listening comprehension, speaking, reading and writing with an emphasis on communication in Spanish. Student participation in this course will be entirely in Spanish. A study of Hispanic cultures and customs continues to be developed in this course. SPA 122 is a prerequisite for this course. New students should have completed at least four years of high school Spanish. This course is open to native speakers. Prerequisite: SPA 122, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.

SPA 222 INTERMEDIATE SPANISH 2

This Humanities course is the second half of a 2-semester sequence that continues the development of the four basic language skills of listening comprehension, speaking, reading and writing with an emphasis on communication. Student participation in this course will be entirely in Spanish. The course also introduces literary analysis of Hispanic literature. SPA 221 is a prerequisite for this course. New students should have completed at least four years of high school Spanish. This course is open to native speakers. Prerequisite: SPA 221, or permission of the instructor. At the discretion of the instructor, a placement test may be administered to assess the student's level of proficiency. 3 cr. 3 lec.